



UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: KOPERDA ET AL. GRP. ART UNIT: UNKNOWN
APPL. NO.: 10/625,147 EXAMINER: NOT ASSIGNED
FILED: JULY 23, 2003 DOCKET NO.: A-9277
TITLE: SYSTEM AND METHOD FOR PROVIDING STATISTICS FOR
FLEXIBLE BILLING IN A CABLE ENVIRONMENT

AUGUST 20, 2003

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, DC 20231

Sir:

Transmitted herewith for filing in the above-identified patent application, please find:

1. X 8 Page Information Disclosure Statement
2. X Form PTO-1449
3. X Copy of Cited Art
4. X Return Postcard

In the event a fee is required, the Commissioner is hereby authorized to charge payment of any fees required in connection with this Information Disclosure Statement to our Deposit Account No. 19-0761. A duplicate copy of this letter is transmitted herewith.

Respectfully submitted:

SEND CORRESPONDENCE TO:

Scientific-Atlanta, Inc.
Intellectual Property Dept. MS 4.3.510
5030 Sugarloaf Parkway
Lawrenceville, GA 30044

By:

Kenneth M. Massaroni
KENNETH M. MASSARONI
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Reg. No.: 33,015
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Certificate of Hand Delivery

I, Jennifer Harris-Lohse, hereby certify that a copy of this Information Disclosure Statement with all attachments was hand delivered to the United States Patent and Trademark Office, 2011 South Clark Place, Customer Window, Mail Stop DD, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202 on Aug. 20, 2003.

Jennifer Harris-Lohse
Signature

Jennifer Harris-Lohse
Printed Name



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Washington, D.C. 20231

Sir:

This information disclosure statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, and specifically:

- ☒ under 37 CFR 1.97(b), or
(within Three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
☐ Statement Under 37 C.F.R. 1.97(e), or
☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97(b) time period, but before the final office action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with a:
☐ Statement under 37 CFR 1.97(e), and
☐ a petition under 37 CFR 1.97(d)(2), and
☐ a \$180.00 petition fee set forth in 37 CFR 1.17(i)(1).
(Filed after final office action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge \$0.00 to deposit account 19-0761. At any time during the pendency of this application, please charge any fees required to Deposit Account 19-0761 pursuant to 37 CFR 1.25. The Commissioner is hereby requested to credit any overpayment to Deposit Account No. 19-0761.

- ☒ Applicant(s) submit herewith *Form PTO 1449 - Information Disclosure Citation* together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may or may not be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56. As required by 37 C.F.R. §1.98(a), a legible copy of each document is provided.

The Cited Art includes:

1. U.S. 3,985,962
2. U.S. 4,186,380
3. U.S. 4,207,431
4. U.S. 4,361,851

5. U.S. 4,475,123
6. U.S. 4,491,983
7. U.S. 4,528,589
8. U.S. 4,536,791
9. U.S. 4,577,224
10. U.S. 4,601,028
11. U.S. 4,633,462
12. U.S. 4,641,304
13. U.S. 4,672,533
14. U.S. 4,757,460
15. U.S. 4,771,391
16. U.S. 4,804,248
17. U.S. 4,823,386
18. U.S. 4,858,224
19. U.S. 4,907,224
20. U.S. 4,912,721
21. U.S. 4,980,886
22. U.S. 5,012,469
23. U.S. 5,014,125
24. U.S. 5,047,928
25. U.S. 5,050,213
26. U.S. 5,113,499
27. U.S. 5,131,041
28. U.S. 5,136,690
29. U.S. 5,142,690
30. U.S. 5,155,590
31. U.S. 5,157,657
32. U.S. 5,159,592
33. U.S. 5,166,930
34. U.S. 5,166,931
35. U.S. 5,181,107
36. U.S. 5,185,860
37. U.S. 5,195,092
38. U.S. 5,197,094
39. U.S. 5,208,665
40. U.S. 5,214,390
41. U.S. 5,226,120
42. U.S. 5,235,619
43. U.S. 5,239,540
44. U.S. 5,251,324
45. U.S. 5,261,044
46. U.S. 5,271,041
47. U.S. 5,276,789
48. U.S. 5,278,833
49. U.S. 5,287,351
50. U.S. 5,295,140
51. U.S. 5,295,244
52. U.S. 5,303,234
53. U.S. 5,327,554
54. U.S. 5,333,183
55. U.S. 5,347,304
56. U.S. 5,361,259
57. U.S. 5,384,777
58. U.S. 5,390,181
59. U.S. 5,404,505
60. U.S. 5,423,003
61. U.S. 5,423,006
62. U.S. 5,436,909
63. U.S. 5,440,555
64. U.S. 5,471,399
65. U.S. 5,473,599
66. U.S. 5,481,542
67. U.S. 5,483,631
68. U.S. 5,504,921
69. U.S. 5,515,361
70. U.S. 5,515,418
71. U.S. 5,517,488
72. U.S. 5,517,502

| | |
|---------------------|---------------------|
| 73. U.S. 5,517,618 | 107. U.S. 5,751,971 |
| 74. U.S. 5,521,925 | 108. U.S. 5,761,602 |
| 75. U.S. 5,533,108 | 109. U.S. 5,768,280 |
| 76. U.S. 5,534,913 | 110. U.S. 5,790,548 |
| 77. U.S. 5,535,206 | 111. U.S. 5,790,806 |
| 78. U.S. 5,535,403 | 112. U.S. 5,793,753 |
| 79. U.S. 5,553,095 | 113. U.S. 5,796,718 |
| 80. U.S. 5,553,287 | 114. U.S. 5,799,002 |
| 81. U.S. 5,572,640 | 115. U.S. 5,799,016 |
| 82. U.S. 5,586,121 | 116. U.S. 5,805,591 |
| 83. U.S. 5,594,798 | 117. U.S. 5,805,596 |
| 84. U.S. 5,604,528 | 118. U.S. 5,808,671 |
| 85. U.S. 5,608,446 | 119. U.S. 5,808,886 |
| 86. U.S. 5,610,910 | 120. U.S. 5,812,819 |
| 87. U.S. 5,612,959 | 121. U.S. 5,818,845 |
| 88. U.S. 5,644,706 | 122. U.S. 5,822,319 |
| 89. U.S. 5,650,994 | 123. U.S. 5,828,655 |
| 90. U.S. 5,654,746 | 124. U.S. 5,828,666 |
| 91. U.S. 5,675,732 | 125. U.S. 5,835,696 |
| 92. U.S. 5,701,465 | 126. U.S. 5,835,725 |
| 93. U.S. 5,703,795 | 127. U.S. 5,841,468 |
| 94. U.S. 5,706,277 | 128. U.S. 5,845,091 |
| 95. U.S. 5,708,655 | 129. U.S. 5,859,852 |
| 96. U.S. 5,708,961 | 130. U.S. 5,881,234 |
| 97. U.S. 5,710,884 | 131. U.S. 5,881,243 |
| 98. U.S. 5,712,897 | 132. U.S. 5,884,024 |
| 99. U.S. 5,720,025 | 133. U.S. 5,884,284 |
| 100. U.S. 5,721,780 | 134. U.S. 5,892,812 |
| 101. U.S. 5,724,492 | 135. U.S. 5,894,479 |
| 102. U.S. 5,729,682 | 136. U.S. 5,898,780 |
| 103. U.S. 5,737,311 | 137. U.S. 5,903,572 |
| 104. U.S. 5,737,316 | 138. U.S. 5,905,714 |
| 105. U.S. 5,751,706 | 139. U.S. 5,905,736 |
| 106. U.S. 5,751,707 | 140. U.S. 5,956,391 |

141. U.S. 5,959,972
142. U.S. 5,966,163
143. U.S. 5,999,970
144. U.S. 6,018,767
145. U.S. 6,028,860
146. U.S. 6,032,266
147. U.S. 6,049,826
148. U.S. 6,052,819
149. U.S. 6,055,224
150. U.S. 6,058,421
151. U.S. 6,065,049
152. U.S. 6,070,246
153. U.S. 6,073,178
154. U.S. 6,178,455
155. U.S. 6,208,656
156. U.S. 6,230,203
157. U.S. 6,249,523
158. U.S. 6,272,150
159. U.S. 6,282,208
160. U.S. 6,286,058
161. U.S. 6,295,298
162. FR002716319A1
163. Data-Over-Cable Service Interface Specifications; Radio Frequency Interface Specification; SP-RFI-I04-980724; Cable Television Laboratories, Inc.; 1997; pp 1-196
164. Data-Over Cable Service Interface Specifications; Cable Modem to Customer Premise Equipment Interface Specification; SP-CMCI-I02-980317; 1988; Cable Television Laboratories, Inc.; pps. 1-40
165. Data-Over Cable Service Interface Specifications; Cable Modem Telephony Return Interface Specification; SP-CMTRI-I01-970804; 1997; Cable Television Laboratories, Inc.; pps. 1-74
166. Data-Over Cable Service Interface Specifications; Radio Frequency Interface Specification; SPRFIV1.1-I01-990311; 1999; Cable Television Laboratories, Inc.; pps. 1-310
167. Data-Over Cable Technical Reports; Operations Support System Framework for Data Over Cable Services; TR-DOCS-OSSIW08-961016; 1996; MCNS Holdings, LP; pps. 1-20
168. Data-Over Cable Service Interface Specifications; Operations Support System Interface Specification; SP-OSSI-I02-990113; 1999; Cable Television Laboratories, Inc.; pps. 1-26
169. Data-Over Cable Service Interface Specifications; Operations Support System Interface Specification Radio Frequency Interface; SP-OSSI-RFI-I03-990113; 1999; Cable Television Laboratories, Inc.; pps. 1-29
170. Data-Over Cable Service Interface Specifications; Operations Support System Interface Specification Baseline Privacy Interface MIB; SP-OSSI-BPI-I01-980331; 1998; pps. 1-33
171. Radio Frequency (RF) Interface Management Information Base for MCNS Compliant RF Interfaces draft-ietf-ipcdn-rf-interface-mib-04.txt; May 22, 1998; Guenter Roeck (editor); pps. 1-55
172. Cable Device Management Information Base for MCNS Complaint Cable Modems and Cable Modem Termination Systems draft-ietf-ipcdn-cable-device-mib-04.txt; May 22, 1998; Guenter Roeck (editor); pps. 1-32
173. Baseline Privacy Interface Management Information Base for MCNS Compliant Cable Modems and Cable Modem Termination Systems; R. Woundy; 1/17/99; pps. 1-35
174. Logical IP Subnetworks over IEEE 802.14 Services; Mark Laubach; 3/13/98; pps. 1-13

175. A Distribute Queueing Random Access Protocol for a Broadcast Channel; Wenxin Xu and Graham Campbell; Illinois Institute of Technology (Comp. Science Dept.); pps. 1-9
176. CBR Channels on a DQRAP-based HFC Network; Chien-Ting Wu, Graham Campbell; Illinois Institute of Technology (Comp. Science Dept.); pps. 1-14
177. Interleaved DQRAP with Global TQ; Chien-Ting Wu, Graham Campbell; Illinois Institute of Technology (Comp. Science Dept.); pps 1-27
178. The EXTENDED DQRAP (XDQRAP) ALGORITHM; Chien-Ting Wu, Graham Campbell; Illinois Institute of Technology (Comp. Science Dept.); 12/9/1994; pps. 1-4
179. Extended DQRAP (XDQRAP) A Cable TV Protocol Functioning as a Distributed Switch; Chien-Ting Wu & Graham Campbell; Illinois Institute of Technology (Comp. Science Dept.); pps. 1-7
180. A Review of Contention Resolution Algorithms for IEEE 802.14 Networks; Nada Glomie; Yves Saintillan, & David H. Su; National Institute of Standards and Technology; pps. 1-11
181. A Review of Contention Resolution Algorithms for IEEE 802.14 Networks; Nada Glomie, Yves Saintillan, & David H. Su; National Institute of Standards and Technology; pps. 1-12
182. On IEEE 802.14 Medium Access Control Protocol; Ying-Dar Lin; 1998; pps. 1-13
183. On IEEE 802.14 Medium Access Control Protocol; Ying-Dar Lin; 1998; pps. 1-11
184. On IEEE 802.14 Medium Access Control Protocol; Ying-Dar Lin; 1998; pps. 1-10
185. Hybrid-Fiber Coax; Hung Nguyen and Felix Yao; 4/22/96; pps. 1-11
186. Cable Data Modem Performance Evaluation, A Primer for Non-Technical Readers; Cable Television Laboratories, Inc.; 11/15/96; pps. 1-8
187. High Speed Cable Modems, Including IEEE 802.14 Standards; Albert A. Azzam; Chapters 5, 6
188. Cable Device Management Information Base for DOCSIS Compliant Cable Modems and Cable Modem Termination Systems; Michael St. Johns; 3/30/99; pps. 1-54
189. Radio Frequency (RF) Interfaces Management Information Base for MCNS/DOCSIS Compliant RF Interfaces; Mike St. Johns, (Editor); 2/17/99; pps. 1-67
190. Telephony-Return Interface (TRI) Management Information Base for DOCSIS-compliant Telephony-Return Cable Modems and Cable Modem Termination Systems; S. Adiraju, J. Fijolek; 4/2/99; pps. 1-27
191. Data Over Cable System Quality of Service Management Information Base (DOCSIS-QOS MIB); Mike Patrick; J. Harvey; Motorola ING; 6/25/99; pps. 1-43
192. Docsis 1.1 IGMP MIB; H. Abramson, Motorola; June 1999; pps. 1-13
193. Publications and Technical Reports of Dolors Sala - Home Page; pps. 1-6
194. Scheduling Disciplines for HFC Systems: What can we learn from ATM scheduling?; Dolors Sala, John O. Limb; GA Tech; pps. 1-6
195. A Protocol for Efficient Transfer of Data over Fiber/Cable Systems; Dolors Sala, John O. Limb; GA Tech; pps. 1-8
196. MAC Protocols for Multimedia Data over HFC Architecture; Dolors Sala Battle; 10/27/95; pps. 1-28
197. An Access Protocol to Support Multimedia Traffic Over Hybrid Fiber/Coax Systems; John O. Limb, Dolors Sala; pps. 1-6

198. Simulation of the Performance of XDQRAP under a Range of Conditions; John O. Limb, Dolores Sala, Jason Collins, David Hartman, Daniel Howard; pps. 1-10
199. Interleaved DQRAP with Global TQ; Chien-Ting Wu, Graham Campbell; Illinois Institute of Technology, CS Dept.; 1/8/95; pps. 1-26
200. Data Link Protocols; Uyless Black; Bell Atlantic Education Services; PTR Prentice Hall; New Jersey; 1993; pps. 141-159
201. ATM Foundation for Broadband Networks; Vol. 1; Ed. 2; Uyless Black; Prentice Hall; NJ; 1999; pps. 260-299
202. The V Series Recommendations; Ed. 2; Uyless Black; McGraw-Hill, Inc.; 1995; pps. 169-184
203. Frame Relay Networks; Ed. 2; Uyless Black; McGraw-Hill, Inc.; 1996; pps. 159-176
204. ISDN; Ed. 3; Gary C. Kessler & Peter V. Southwick; McGraw-Hill, Inc.; 1997; pps. 111-128
205. ISDN & SS7: Architecture for Digital Signaling Networks; Uyless Black; Prentice Hall; NJ; 1997; pps. 31-47
206. ISDN and Broadband ISDN with Frame Relay and ATM; Ed. 4; William Stallings; Prentice Hall; NJ; 1999; pps. 181-343; pps. 312-343
207. Extended DQRAP (XDQRAP); Chien-Ting Wu; Graham Campbell; Illinois Institute of Technology (Comp. Sci. Dept.); Jan. 8, 1995; pps. 1-4
208. Dynamic Host Configuration Protocol; R. Droms; Network Working Group Request for Comments; 1993; pps. 1-39
209. Cisco Hot Standby Router Protocol (HSRP); T. Li, et al.; Network Working Group Request for Comments; 1998; pps. 1-17
210. Address Allocation for Private Internets; Y. Rekhter, et al.; Network Working Group Request for Comments; 1994; pps. 1-8
211. Network 10 Considered Harmful (Some Practices Shouldn't be Codified); E. Lear, et al.; Network Working Group Request for Comments; 1994; pps. 1-8
212. Unique Addresses are Good; E. Gerich; Network Working Group Request for Comments; 1995; pps. 1-3
213. Address Allocation for Private Internets; Y. Rekhter, et al.; Network Working Group Request for Comments; 1996; pps. 1-9
214. The IP Network Address Translator (NAT); E. Egevang, et al.; Network Working Group Request for Comments; 1994; pps. 1-10
215. IP Network Address Translator (NAT) Terminology and Considerations; P. Srisuresh, et al.; Network Working Group Request for Comments; 1999; pps. 1-24
216. Load Sharing Using IP Network Address Translation (LSNAT); P. Srisuresh, et al.; Network Working Group Request for Comments; 1998; pps. 1-18
217. DNS Extensions to Network Address Translators (DNS_ALG); P. Srisuresh, et al.; Network Working Group Request for Comments; 1999; pps. 1-29
218. Security Model with Tunnel-Mode IPsec for NAT Domains; P. Srisuresh, et al.; Network Working Group Request for Comments; 1999; pps. 1-11

219. Network Address Translation - Protocol Translation (NAT-PT); G. Tsirtsis, et al.; Network Working Group Request for Comments; 2000; pps. 1-21
220. Stateless IP/ICMP Translation Algorithm (SIIT); E. Nordmark; Network Working Group Request for Comments; 2000; pps. 1-26
221. FTP Extensions for IPv.6 and NATs; M. Allman, et al.; Network Working Group Request for Comments; 1998; pps. 1-8
222. PPP Bridging Control Protocol (BCP); F. Baker et al.; Network Working Group Request for Comments, June 1994; pps. 1-28
223. TCP/IP Illustrated, Volume 1 - The Protocols; W. Richard Stevens; Addison-Wesley Longman, Inc.; January 1999; Chapters 1, 2, 3, 4, 9, 10, 11, 16, 25

- ☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on the form PTO 1449 and is enclosed herewith.

The following rights are reserved by the Applicant(s): the right to establish the patentability of the claimed invention over any of the listed documents should they be applied as reference, and/or the right to prove that some of these documents may not be prior art, and/or the right to prove that some of these documents may not be enabling for the teachings they purport to offer.

This statement should not be construed as a representation that an exhaustive search has been made, or that information more material to the examination of the present application does not exist. The Examiner is specifically requested not to rely solely on the materials submitted herewith. The Examiner is requested to conduct an independent and thorough review of the documents, and to form independent opinions as to their significance.

It is requested that the information disclosed herein be made of record in this application and that the Examiner initial and return a copy of the enclosed PTO-1449 to indicate the documents have been considered.

Respectfully Submitted,

By: Kenneth M. Massaroni

SEND CORRESPONDENCE TO:

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Certificate of Hand Delivery

I, Jennifer Harris Lohse, hereby certify that a copy of this Information Disclosure Statement with all attachments was hand delivered to the United States Patent and Trademark Office, 2011 South Clark Place, Customer Window, Mail Stop DD, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202 on Aug. 20, 2003.

Jennifer Harris Lohse
Signature

Jennifer Harris Lohse
Printed Name

| Form PTO-1449 | | U.S. Dept. of Commerce, Patent and Trademarks LIST OF ART CITED BY APPLICANT (Use several sheets if necessary) | | | | | |
|---|------|---|----------|-------------------------|-------------------------------|----------|-------------|
| Attorney Docket No.: A-9277 | | Serial No.: 10/625,147 | | | Filing Date: JULY 23, 2003 | | |
| Applicant: KOPERDA ET AL. | | | | Group: UNKNOWN | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| Exami ner's Initial | Item | Document No. | Date | Name | Class | Subclass | |
| | A | 3,985,962 | 10/12/76 | Jones et al. | 179 | 15 | |
| | B | 4,186,380 | 1/29/80 | Edwin et al. | 340 | 147 | |
| | C | 4,207,431 | 1/10/80 | McVoy | 179 | 1 | |
| | D | 4,361,851 | 11/30/82 | Asip et al. | 358 | 84 | |
| | E | 4,475,123 | 10/2/84 | Dumbauld et al. | 358 | 114 | |
| | F | 4,491,983 | 1/1/85 | Pinnow et al. | 455 | 612 | |
| | G | 4,528,589 | 7/9/85 | Block et al. | 358 | 122 | |
| | H | 4,536,791 | 8/20/85 | Campbell et al. | 358 | 122 | |
| | I | 4,577,224 | 3/18/86 | Ost | 358 | 114 | |
| | J | 4,601,028 | 7/15/86 | Huffman et al. | 370 | 15 | |
| | K | 4,633,462 | 12/30/86 | Stifle et al. | 370 | 85 | |
| | L | 4,641,304 | 2/3/87 | Raychaudhuri | 370 | 95 | |
| | M | 4,672,533 | 6/9/87 | Noble et al. | 379 | 93.02 | |
| | N | 4,757,460 | 7/12/88 | Bione et al. | 364 | 514 | |
| | O | 4,771,391 | 9/13/88 | Blasbalg | 364 | 514 | |
| | P | 4,804,248 | 2/14/89 | Bhagavatula | 350 | 96 | |
| | Q | 4,823,386 | 4/18/89 | Dumbauld et al. | 380 | 13 | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document No. | Date | Country | Class | Subclass | Translation |
| | | | | | | | |
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| OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.) | | | | | | | |
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| EXAMINER | | | | DATE CONSIDERED: | | | |
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| LIST OF ART CITED BY APPLICANT | | | | | | | |
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| Attorney Docket No.: A-9277 | | Serial No.: 10/625,147 | | | Filing Date: JULY 23, 2003 | | |
| Applicant: KOPERDA ET AL. | | | | Group: UNKNOWN | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| Exami ner's Initial | Item | Document No. | Date | Name | Class | Subclass | |
| | R | 4,858,224 | 8/15/89 | Nakano et al. | 370 | 16 | |
| | S | 4,907,224 | 3/6/90 | Scoles et al. | 370 | 85.2 | |
| | T | 4,912,721 | 3/27/90 | Pidgeon, Jr., et al. | 375 | 1 | |
| | U | 4,980,886 | 12/25/90 | Bernstein | 370 | 86 | |
| | V | 5,012,469 | 4/30/91 | Sardana | 370 | 95.3 | |
| | W | 5,014,125 | 5/7/91 | Pocock et al. | 358 | 86 | |
| | X | 5,047,928 | 9/10/91 | Wiedemer | 364 | 406 | |
| | Y | 5,050,213 | 9/17/91 | Shear | 380 | 25 | |
| | Z | 5,113,499 | 5/12/92 | Ankney et al. | 395 | 325 | |
| | AA | 5,131,041 | 7/14/92 | Brunner et al. | 370 | 58.2 | |
| | AB | 5,136,690 | 8/4/92 | Becker et al. | 395 | 161 | |
| | AC | 5,142,690 | 8/25/92 | McMullan, Jr., et al. | 455 | 6.1 | |
| | AD | 5,155,590 | 10/13/92 | Beyers, II et al. | 358 | 86 | |
| | AE | 5,157,657 | 10/20/92 | Potter et al. | 370 | 85 | |
| | AF | 5,159,592 | 10/27/92 | Perkins | 370 | 85.7 | |
| | AG | 5,166,930 | 11/24/92 | Braff et al. | 370 | 94.1 | |
| | AH | 5,166,931 | 11/24/92 | Riddle | 370 | 94.1 | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document No. | Date | Country | Class | Subclass | Translation |
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| OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.) | | | | | | | |
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| A-9277 | | 10/625,147 | | | JULY 23, 2003 | | |
| Applicant: | | | | Group: | | | |
| KOPERDA ET AL. | | | | UNKNOWN | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| Exami ner's Initial | Item | Document No. | Date | Name | Class | Subclass | |
| | AI | 5,181,107 | 1/19/93 | Rhoades | 358 | 86 | |
| | AJ | 5,185,860 | 2/9/93 | Wu | 395 | 200 | |
| | AK | 5,195,092 | 3/16/93 | Wilson et al. | 370 | 94.2 | |
| | AL | 5,197,094 | 3/23/93 | Tillery et al. | 370 | 91 | |
| | AM | 5,208,665 | 5/4/93 | McCalley et al. | 358 | 86 | |
| | AN | 5,214,390 | 5/25/93 | Montreuil | 329 | 309 | |
| | AO | 5,226,120 | 7/6/93 | Brown et al. | 395 | 200 | |
| | AP | 5,235,619 | 8/10/93 | Beyers, II et al. | 375 | 38 | |
| | AQ | 5,239,540 | 8/24/93 | Rovira et al. | 370 | 77 | |
| | AR | 5,251,324 | 10/5/93 | McMullan Jr. | 455 | 2 | |
| | AS | 5,261,044 | 11/9/93 | Dev et al. | 395 | 159 | |
| | AT | 5,271,041 | 12/14/93 | Montreuil | 375 | 97 | |
| | AU | 5,276,789 | 1/4/94 | Besaw et al. | 395 | 140 | |
| | AV | 5,278,833 | 1/11/94 | Crisler et al. | 370 | 95 | |
| | AW | 5,287,351 | 2/15/94 | Wall, Jr. | 370 | 77 | |
| | AX | 5,295,140 | 3/15/94 | Crisler et al. | 370 | 94.1 | |
| | AY | 5,295,244 | 3/15/94 | Dev et al. | 395 | 161 | |
| | AZ | 5,303,234 | 4/12/94 | Kou | 370 | 85.2 | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| U.S. PATENT DOCUMENTS | | | | | | | |
| Examiner's Initial | Item | Document No. | Date | Name | Class | Subclass | |
| | BA | 5,327,554 | 7/5/94 | Palazzi, III et al. | 395 | 600 | |
| | BB | 5,333,183 | 7/26/94 | Herbert | 379 | 112 | |
| | BC | 5,347,304 | 9/13/94 | Moura et al. | 348 | 12 | |
| | BD | 5,361,259 | 11/1/94 | Hunt et al. | 370 | 84 | |
| | BE | 5,384,777 | 1/24/95 | Ahmadi et al. | 370 | 85.2 | |
| | BF | 5,390,181 | 2/14/95 | Campbell et al. | 370 | 85.2 | |
| | BG | 5,404,505 | 4/4/95 | Levinson | 395 | 600 | |
| | BH | 5,423,003 | 6/6/95 | Berteau | 395 | 200 | |
| | BI | 5,423,006 | 6/6/95 | Brown et al. | 395 | 275 | |
| | BJ | 5,436,909 | 7/25/95 | Dev et al. | 371 | 20.1 | |
| | BK | 5,440,555 | 8/8/95 | Momona | 379 | 79 | |
| | BL | 5,471,399 | 11/28/95 | Tanaka et al. | 364 | 491 | |
| | BM | 5,473,599 | 12/5/95 | Li et al. | 379 | 16 | |
| | BN | 5,481,542 | 1/2/96 | Logston et al. | 370 | 94.2 | |
| | BO | 5,483,631 | 1/9/96 | Nagai et al. | 395 | 155 | |
| | BR | 5,504,921 | 4/2/96 | Dev et al. | 395 | 800 | |
| | BQ | 5,515,361 | 5/7/96 | Li et al. | 370 | 15 | |
| | BR | 5,515,418 | 5/7/96 | Yamaguchi et al. | 379 | 34 | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document No. | Date | Country | Class | Subclass | Translation |
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Applicant:

KOPERDA ET AL.

Group:

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U.S. PATENT DOCUMENTS

| Exami ner's Initial | Item | Document No. | Date | Name | Class | Subclass | |
|---------------------------|------|--------------|----------|-------------------|-------|----------|--|
| | BS | 5,517,488 | 5/14/96 | Miyazaki et al. | 370 | 16 | |
| | BT | 5,517,502 | 5/14/96 | Bestler et al. | 370 | 94.2 | |
| | BU | 5,517,618 | 5/14/96 | Wada et al. | 395 | 200 | |
| | BV | 5,521,925 | 5/28/96 | Merakos et al. | 370 | 95.3 | |
| | BW | 5,533,108 | 7/2/96 | Harris et al. | 379 | 201 | |
| | BX | 5,534,913 | 7/9/96 | Majeti et al. | 348 | 7 | |
| | BY | 5,535,206 | 7/9/96 | Bestler et al. | 370 | 79 | |
| | BZ | 5,535,403 | 7/9/96 | Li et al. | 395 | 800 | |
| | CA | 5,553,095 | 9/3/96 | Engdahl et al. | 375 | 222 | |
| | CB | 5,553,287 | 9/3/96 | Bailey et al. | 395 | 650 | |
| | CC | 5,572,640 | 11/5/96 | Schettler | 395 | 140 | |
| | CD | 5,586,121 | 12/17/96 | Moura et al. | 370 | 404 | |
| | CE | 5,594,798 | 1/14/97 | Cox et al. | 380 | 49 | |
| | CF | 5,604,528 | 2/18/97 | Edwards et al. | 348 | 5.5 | |
| | CG | 5,608,446 | 3/4/97 | Carr et al. | 348 | 6 | |
| | CH | 5,610,910 | 3/11/97 | Focsaneanu et al. | 370 | 351 | |
| | CI | 5,612,959 | 3/18/97 | Takase et al. | 370 | 390 | |
| | CJ | 5,644,706 | 7/1/97 | Ruigrok et al. | 395 | 185.01 | |

FOREIGN PATENT DOCUMENTS

| | | Document No. | Date | Country | Class | Subclass | Translation |
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OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.)

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| U.S. PATENT DOCUMENTS | | | | | | | |
| Exami ner's Initial | Item | Document No. | Date | Name | Class | Subclass | |
| | CK | 5,650,994 | 7/22/97 | Daley | 370 | 259 | |
| | CL | 5,654,746 | 8/5/97 | McMullan Jr. et al. | 348 | 6 | |
| | CM | 5,675,732 | 10/7/97 | Majeti et al. | 395 | 200.01 | |
| | CN | 5,701,465 | 12/23/97 | Baughner et al. | 395 | 610 | |
| | CO | 5,703,795 | 12/30/97 | Mankovitz | 364 | 514 | |
| | CP | 5,706,277 | 1/6/98 | Klink | 370 | 220 | |
| | CO | 5,708,655 | 1/13/98 | Toth et al. | 370 | 313 | |
| | CR | 5,708,961 | 1/13/98 | Hylton, et al. | 455 | 4.2 | |
| | CS | 5,710,884 | 1/20/98 | Dedrick | 395 | 200.47 | |
| | CT | 5,712,897 | 1/27/98 | Ortel | 370 | 22 | |
| | CU | 5,720,025 | 2/17/98 | Wilkes et al. | 395 | 182.04 | |
| | CV | 5,721,780 | 2/24/98 | Ensor et al. | 380 | 25 | |
| | CW | 5,724,492 | 3/3/98 | Matthews, III et al. | 395 | 119 | |
| | CX | 5,729,682 | 3/17/98 | Marquis et al. | 395 | 200 | |
| | CY | 5,737,311 | 4/7/98 | Wyld | 370 | 227 | |
| | CZ | 5,737,316 | 4/7/98 | Lee | 370 | 248 | |
| | DA | 5,751,706 | 5/12/98 | Land et al. | 370 | 352 | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| U.S. PATENT DOCUMENTS | | | | | | | |
| Exami ner's Initial | Item | Document No. | Date | Name | Class | Subclass | |
| | DB | 5,751,707 | 5/12/98 | Voit et al. | 370 | 384 | |
| | DC | 5,751,971 | 5/12/98 | Dobbins et al. | 395 | 200.68 | |
| | DD | 5,761,602 | 6/2/98 | Wagner, et al. | 455 | 3.1 | |
| | DE | 5,768,280 | 6/16/98 | Way | 370 | 486 | |
| | DF | 5,790,548 | 8/4/98 | Sistanizadeh et al. | 370 | 401 | |
| | DG | 5,790,806 | 8/4/98 | Koperda | 395 | 200.82 | |
| | DH | 5,793,753 | 8/11/98 | Hershey et al. | 370 | 252 | |
| | DI | 5,796,718 | 8/18/98 | Caterisano | 370 | 217 | |
| | DJ | 5,799,002 | 8/25/98 | Krishnan | 370 | 234 | |
| | DK | 5,799,016 | 8/25/98 | Onweller | 370 | 401 | |
| | DL | 5,805,591 | 9/8/98 | Naboulsi et al. | 370 | 395 | |
| | DM | 5,805,596 | 9/8/98 | Kranzler et al. | 370 | 445 | |
| | DN | 5,808,671 | 9/15/98 | Maycock et al. | 348 | 180 | |
| | DO | 5,808,886 | 9/15/98 | Suzuki | 364 | 133 | |
| | DP | 5,812,819 | 9/22/98 | Rodwin et al. | 395 | 500 | |
| | DQ | 5,818,845 | 10/6/98 | Moura et al. | 370 | 449 | |
| | DR | 5,822,319 | 10/13/98 | Nagami et al. | 370 | 392 | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document No. | Date | Country | Class | Subclass | Translation |
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| U.S. PATENT DOCUMENTS | | | | | | | |
| Exami ner's Initial | Item | Document No. | Date | Name | Class | Subclass | |
| | DS | 5,828,655 | 10/27/98 | Moura et al. | 370 | 236 | |
| | DT | 5,828,666 | 10/27/98 | Focsaneanu et al. | 370 | 389 | |
| | DU | 5,835,696 | 11/10/98 | Hess | 395 | 182.08 | |
| | DV | 5,835,725 | 11/10/98 | Chiang et al. | 395 | 200.58 | |
| | DW | 5,841,468 | 11/24/98 | Wright | 348 | 6 | |
| | DX | 5,845,091 | 12/1/98 | Dunne et al. | 395 | 200.7 | |
| | DY | 5,859,852 | 1/12/99 | Moura et al. | 370 | 449 | |
| | DZ | 5,881,234 | 3/9/99 | Scwob | 395 | 200.49 | |
| | EA | 5,881,243 | 3/9/99 | Zaumen et al. | 395 | 200.71 | |
| | EB | 5,884,024 | 3/16/99 | Lim et al. | 395 | 187.01 | |
| | EC | 5,884,284 | 3/16/99 | Peters et al. | 705 | 30 | |
| | ED | 5,892,812 | 4/6/99 | Pester, III | 379 | 34 | |
| | EE | 5,894,479 | 4/13/99 | Mohammed | 370 | 401 | |
| | EF | 5,898,780 | 4/27/99 | Liu et al. | 380 | 25 | |
| | EG | 5,903,572 | 5/11/99 | Wright et al. | 370 | 524 | |
| | EH | 5,905,714 | 5/18/99 | Havansi | 370 | 242 | |
| | EI | 5,905,736 | 5/18/99 | Ronen et al. | 370 | 546 | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document No. | Date | Country | Class | Subclass | Translation |
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| U.S. PATENT DOCUMENTS | | | | | | | |
| Exami ner's Initial | Item | Document No. | Date | Name | Class | Subclass | |
| | EJ | 5,956,391 | 9/21/99 | Melen et al. | 379 | 114 | |
| | EK | 5,959,972 | 9/28/99 | Hamami | 370 | 228 | |
| | EL | 5,966,163 | 10/12/99 | Lin et al. | 348 | 12 | |
| | EM | 5,999,970 | 12/7/99 | Krisbergh et al. | 709 | 217 | |
| | EN | 6,018,767 | 1/25/00 | Fijolek et al. | 709 | 218 | |
| | EO | 6,028,860 | 2/22/00 | Laubach et al. | 370 | 395 | |
| | EP | 6,032,266 | 2/29/00 | Ichinohe et al. | 714 | 9 | |
| | EQ | 6,049,826 | 4/11/00 | Beser | 709 | 222 | |
| | ER | 6,052,819 | 4/18/00 | Barker et al. | 714 | 776 | |
| | ES | 6,055,224 | 4/25/00 | King | 370 | 217 | |
| | ET | 6,058,421 | 5/2/00 | Fijolek et al. | 709 | 225 | |
| | EU | 6,065,049 | 5/16/00 | Beser et al. | 709 | 218 | |
| | EV | 6,070,246 | 5/30/00 | Beser | 713 | 201 | |
| | EW | 6,073,178 | 6/6/00 | Wong et al. | 709 | 229 | |
| | EX | 6,178,455 | 1/23/01 | Schutte et al. | 709 | 228 | |
| | EY | 6,208,656 | 3/27/01 | Hrastar et al. | 370 | 401 | |
| | EZ | 6,230,203 | 5/8/01 | Koperda et al. | 709 | 229 | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document No. | Date | Country | Class | Subclass | Translation |
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| U.S. PATENT DOCUMENTS | | | | | | | |
| Exami ner's Initial | Item | Document No. | Date | Name | Class | Subclass | |
| | FA | 6,249,523 | 6/19/01 | Hrastar et al. | 370 | 401 | |
| | FB | 6,272,150 | 8/7/01 | Hrastar et al. | 370 | 486 | |
| | FC | 6,282,208 | 8/28/01 | Bowcutt et al. | 370 | 486 | |
| | FD | 6,286,058 | 9/4/01 | Hrastar et al. | 710 | 8 | |
| | FE | 6,295,298 | 9/25/01 | Hrastar et al. | 370 | 409 | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document No. | Date | Country | Name | Class | Subclass |
| | FF | FR002716319A1 | 8/18/95 | Germany | Patrice | H04L | 9/32 |
| OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| | FG | Data-Over-Cable Service Interface Specifications; Radio Frequency Interface Specification; SP-RFI-I04-980724; Cable Television Laboratories, Inc.; 1997; pp 1-196 | | | | | |
| | FH | Data-Over Cable Service Interface Specifications; Cable Modem to Customer Premise Equipment Interface Specification; SP-CMCI-I02-980317; 1988; Cable Television Laboratories, Inc.; pps. 1-40 | | | | | |
| | FK | Data-Over Cable Service Interface Specifications; Cable Modem Telephony Return Interface Specification; SP-CMTRI-I01-970804; 1997; Cable Television Laboratories, Inc.; pps. 1-74 | | | | | |
| | FJ | Data-Over Cable Service Interface Specifications; Radio Frequency Interface Specification; SPRFIv1.1-I01-990311; 1999; Cable Television Laboratories, Inc.; pps. 1-310 | | | | | |
| | FK | Data-Over Cable Technical Reports; Operations Support System Framework for Data Over Cable Services; TR-DOCS-OSSIW08-961016; 1996; MCNS Holdings, LP; pps. 1-20 | | | | | |
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| OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| | FL | Data-Over Cable Service Interface Specifications; Operations Support System Interface Specification; SP-OSSI-I02-990113; 1999; Cable Television Laboratories, Inc.; pps. 1-26 | | | | | |
| | FM | Data-Over Cable Service Interface Specifications; Operations Support System Interface Specification Radio Frequency Interface; SP-OSSI-RFI-I03-990113; 1999; Cable Television Laboratories, Inc.; pps. 1-29 | | | | | |
| | FN | Data-Over Cable Service Interface Specifications; Operations Support System Interface Specification Baseline Privacy Interface MIB; SP-OSSI-BPI-I01-980331; 1998; pps. 1-33 | | | | | |
| | FQ | Radio Frequency (RF) Interface Management Information Base for MCNS Compliant RF Interfaces draft-ietf-ipcdn-rf-interface-mib-04.txt; May 22, 1998; Guenter Roeck (editor); pps. 1-55 | | | | | |
| | FP | Cable Device Management Information Base for MCNS Complaint Cable Modems and Cable Modem Termination Systems draft-ietf-ipcdn-cable-device-mib-04.txt; May 22, 1998; Guenter Roeck (editor); pps. 1-32 | | | | | |
| | FQ | Baseline Privacy Interface Management Information Base for MCNS Compliant Cable Modems and Cable Modem Termination Systems; R. Woundy; 1/17/99; pps. 1-35 | | | | | |
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| U.S. PATENT DOCUMENTS | | | | | | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | |
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| OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| | FR | Logical IP Subnetworks over IEEE 802.14 Services; Mark Laubach; 3/13/98; pps. 1-13 | | | | | |
| | FS | A Distribute Queueing Random Access Protocol for a Broadcast Channel; Wenxin Xu and Graham Campbell; Illinois Institute of Technology (Comp. Science Dept.); pps. 1-9 | | | | | |
| | FT | CBR Channels on a DQRAP-based HFC Network; Chien-Ting Wu, Graham Campbell; Illinois Institute of Technology (Comp. Science Dept); pps. 1-14 | | | | | |
| | FU | Interleaved DQRAP with Global TQ; Chien-Ting Wu, Graham Campbell; Illinois Institute of Technology (Comp. Science Dept.); pps 1-27 | | | | | |
| | FV | The EXTENDED DQRAP (XDQRAP) ALGORITHM; Chien-Ting Wu, Graham Campbell; Illinois Institute of Technology (Comp. Science Dept.); 12/9/1994; pps. 1-4 | | | | | |
| | FW | Extended DQRAP (XDQRAP) A Cable TV Protocol Functioning as a Distributed Switch; Chien-Ting Wu & Graham Campbell; Illinois Institute of Technology (Comp. Science Dept.); pps. 1-7 | | | | | |
| | FX | A Review of Contention Resolution Algorithms for IEEE 802.14 Networks; Nada Glomie; Yves Saintillan, & David H. Su; National Institute of Standards and Technology; pps. 1-11 | | | | | |
| EXAMINER | | | | DATE CONSIDERED: | | | |
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| OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| | FY | A Review of Contention Resolution Algorithms for IEEE 802.14 Networks; Nada Glomie, Yves Saintillan, & David H. Su; National Institute of Standards and Technology; pps. 1-12 | | | | | |
| | FZ | On IEEE 802.14 Medium Access Control Protocol; Ying-Dar Lin; 1998; pps. 1-13 | | | | | |
| | GA | On IEEE 802.14 Medium Access Control Protocol; Ying-Dar Lin; 1998; pps. 1-11 | | | | | |
| | GB | On IEEE 802.14 Medium Access Control Protocol; Ying-Dar Lin; 1998; pps. 1-10 | | | | | |
| | GC | Hybrid-Fiber Coax; Hung Nguyen and Felix Yao; 4/22/96; pps. 1-11 | | | | | |
| | GD | Cable Data Modem Performance Evaluation, A Primer for Non-Technical Readers; Cable Television Laboratories, Inc.; 11/15/96; pps. 1-8 | | | | | |
| | GE | High Speed Cable Modems, Including IEEE 802.14 Standards; Albert A. Azzam; Chapters 5, 6 | | | | | |
| | GF | Cable Device Management Information Base for DOCSIS Compliant Cable Modems and Cable Modem Termination Systems; Michael St. Johns; 3/30/99; pps. 1-54 | | | | | |
| | GG | Radio Frequency (RF) Interfaces Management Information Base for MCNS/DOCSIS Compliant RF Interfaces; Mike St. Johns, (Editor); 2/17/99; pps. 1-67 | | | | | |
| | GH | Telephony-Return Interface (TRI) Management Information Base for DOCSIS-compliant Telephony-Return Cable Modems and Cable Modem Termination Systems; S. Adiraju, J. Fijolek; 4/2/99; pps. 1-27 | | | | | |
| EXAMINER | | | | DATE CONSIDERED: | | | |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance. Include copy of this form with next communication to Applicant. | | | | | | | |

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| OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| | GI | Data Over Cable System Quality of Service Management Information Base (DOCSIS-QOS MIB); Mike Patrick; J. Harvey; Motorola INC; 6/25/99; pps. 1-43 | | | | | |
| | GJ | Docsis 1.1 IGMP MIB; H. Abramson, Motorola; June 1999; pps. 1-13 | | | | | |
| | GK | Publications and Technical Reports of Dolors Sala - Home Page; pps. 1-6 | | | | | |
| | GL | Scheduling Disciplines for HFC Systems: What can we learn from ATM scheduling?; Dolors Sala, John O. Limb; GA Tech; pps. 1-6 | | | | | |
| | GM | A Protocol for Efficient Transfer of Data over Fiber/Cable Systems; Dolors Sala, John O. Limb; GA Tech; pps. 1-8 | | | | | |
| | GN | MAC Protocols for Multimedia Data over HFC Architecture; Dolors Sala Battle; 10/27/95; pps. 1-28 | | | | | |
| | GO | An Access Protocol to Support Multimedia Traffic Over Hybrid Fiber/Coax Systems; John O. Limb, Dolors Sala; pps. 1-6 | | | | | |
| | GP | Simulation of the Performance of XDQRAP under a Range of Conditions; John O. Limb, Dolors Sala, Jason Collins, David Hartman, Daniel Howard; pps. 1-10 | | | | | |
| | GQ | Interleaved DQRAP with Global TQ; Chien-Ting Wu, Graham Campbell; Illinois Institute of Technology, CS Dept.; 1/8/95; pps. 1-26 | | | | | |
| | GR | Data Link Protocols; Uyless Black; Bell Atlantic Education Services; PTR Prentice Hall; New Jersey; 1993; pps. 141-159 | | | | | |
| EXAMINER | | | | DATE CONSIDERED: | | | |
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| OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| | GS | ATM Foundation for Broadband Networks; Vol. 1; Ed. 2; Uyless Black; Prentice Hall; NJ; 1999; pps. 260-299 | | | | | |
| | GT | The V Series Recommendations; Ed. 2; Uyless Black; McGraw-Hill, Inc.; 1995; pps. 169-184 | | | | | |
| | GU | Frame Relay Networks; Ed. 2; Uyless Black; McGraw-Hill, Inc.; 1996; pps. 159-176 | | | | | |
| | GV | ISDN; Ed. 3; Gary C. Kessler & Peter V. Southwick; McGraw-Hill, Inc.; 1997; pps. 111-128 | | | | | |
| | GW | ISDN & SS7: Architecture for Digital Signaling Networks; Uyless Black; Prentice Hall; NJ; 1997; pps. 31-47 | | | | | |
| | GX | ISDN and Broadband ISDN with Frame Relay and ATM; Ed. 4; William Stallings; Prentice Hall; NJ; 1999; pps. 181-343; pps. 312-343 | | | | | |
| | GY | Extended DQRAP (XDQRAP); Chien-Ting Wu; Graham Campbell; Illinois Institute of Technology (Comp. Sci. Dept.); Jan. 8, 1995; pps. 1-4 | | | | | |
| | GZ | Dynamic Host Configuration Protocol; R. Droms; Network Working Group Request for Comments; 1993; pps. 1-39 | | | | | |
| | HA | Cisco Hot Standby Router Protocol (HSRP); T. Li, et al.; Network Working Group Request for Comments; 1998; pps. 1-17 | | | | | |
| EXAMINER | | | | DATE CONSIDERED: | | | |
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| OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| | HB | Address Allocation for Private Internets; Y. Rekhter, et al.; Network Working Group Request for Comments; 1994; pps. 1-8 | | | | | |
| | HC | Network 10 Considered Harmful (Some Practices Shouldn't be Codified); E. Lear, et al.; Network Working Group Request for Comments; 1994; pps. 1-8 | | | | | |
| | HD | Unique Addresses are Good; E. Gerich; Network Working Group Request for Comments; 1995; pps. 1-3 | | | | | |
| | HE | Address Allocation for Private Internets; Y. Rekhter, et al.; Network Working Group Request for Comments; 1996; pps. 1-9 | | | | | |
| | HF | The IP Network Address Translator (NAT); E. Egevang, et al.; Network Working Group Request for Comments; 1994; pps. 1-10 | | | | | |
| | HG | IP Network Address Translator (NAT) Terminology and Considerations; P. Srisuresh, et al.; Network Working Group Request for Comments; 1999; pps. 1-24 | | | | | |
| | HH | Load Sharing Using IP Network Address Translation (LSNAT); P. Srisuresh, et al.; Network Working Group Request for Comments; 1998; pps. 1-18 | | | | | |
| | HI | DNS Extensions to Network Address Translators (DNS_ALG); P. Srisuresh, et al.; Network Working Group Request for Comments; 1999; pps. 1-29 | | | | | |
| | HJ | Security Model with Tunnel-Mode IPsec for NAT Domains; P. Srisuresh, et al.; Network Working Group Request for Comments; 1999; pps. 1-11 | | | | | |
| EXAMINER | | | | DATE CONSIDERED: | | | |
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| OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| | HK | Network Address Translation - Protocol Translation (NAT-PT); G. Tsirtsis, et al.; Network Working Group Request for Comments; 2000; pps. 1-21 | | | | | |
| | HL | Stateless IP/ICMP Translation Algorithm (SIIT); E. Nordmark; Network Working Group Request for Comments; 2000; pps. 1-26 | | | | | |
| | HM | FTP Extensions for IPv.6 and NATs; M. Allman, et al.; Network Working Group Request for Comments; 1998; pps. 1-8 | | | | | |
| | HN | PPP Bridging Control Protocol (BCP); F. Baker et al.; Network Working Group Request for Comments, June 1994; pps. 1-28 | | | | | |
| | HO | TCP/IP Illustrated, Volume 1 - The Protocols; W. Richard Stevens; Addison-Wesley Longman, Inc.; January 1999; Chapters 1, 2, 3, 4, 9, 10, 11, 16, 25 | | | | | |
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